

**EXHIBIT B: REPLACEMENT PARAGRAPHS OF THE SPECIFICATION**

**(U.S. APPLICATION NO. 09/536,551; ATTORNEY DOCKET NO. 8951-124-999)**

On page 8, please replace the paragraph beginning “Figure 2”, with the following paragraph:

Figs. 2A-2B. The activity of the oxidase is periodic as shown here for the oxidation of NADH by samples of sera from a young (A) and an aged (B) patient. The maxima in the time course of NADH oxidation measured as a decrease in absorbance at 340 nm over 1 minute at 1.5 minute intervals marked by single arrows have an average period length of 24 minutes and are present in all sera thus far tested. In the aged subject, which is representative of both male and female aged subjects 75 to 98, the maxima indicated by the double arrows reflect an average period length of about 26 min and are characteristic of a NOX isoform associated with aging.

On page 9, please replace the paragraph beginning “Figure 3”, with the following paragraph:

Figs. 3A-3D. Time course of cytochrome c reduction by sera determined from the  $A_{550} - A_{540}$  determined at 10 sec intervals over 450 sec. After 200 sec either 15 mg superoxide dismutase (SOD) or 45 mg ubiquinone ( $Q_{10}$ ) were added and the reaction was continued. A. 40 year old female  $\pm$  SOD. B. 98 year old female  $\pm$  SOD. C. 83 year old female  $\pm$   $Q_{10}$ . D. 94 year old female  $\pm$   $Q_{10}$ . Results from multiple patients, both male and female, are summarized in Table 4 in Section 6.2.3. Line slopes are in nmoles/min/ml sera.